

Amendments to the Claims:

No amendments to the claims are proposed in this Response. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) An isolated polypeptide comprising an amino acid sequence encoding the EGF-like domain of SEQ ID NO:4.

2.-3. (Cancelled)

4. (Previously presented) The polypeptide of claim 1, wherein the polypeptide binds to the ErbB4 receptor and activates tyrosine phosphorylation of the ErbB4 receptor.

5.-38. (Cancelled)

39. (Previously presented) An isolated polypeptide comprising an EGF-like domain, wherein the EGF-like domain consists of an amino acid sequence having at least 75% amino acid sequence identity to SEQ ID NO:4, and wherein the EGF-like domain has the binding characteristics of NRG3 comprising:

(a) binding to ErbB4 receptor but not to ErbB2 receptor or ErbB3 receptor wherein the binding to each receptor is in the absence of the other receptors; and

(b) activation of ErbB4 receptor tyrosine phosphorylation.

40. (Withdrawn) A host cell expressing the polypeptide of claim 1.

41. (Withdrawn) The host cell of claim 40, wherein the host cell is selected from the group consisting of a mammalian cell, a yeast cell, an insect cell, a plant cell, a lower eukaryote, and a prokaryote.

42. (Withdrawn) A host cell expressing the polypeptide of claim 4.
43. (Withdrawn) The host cell of claim 42, wherein the host cell is selected from the group consisting of a mammalian cell, a yeast cell, an insect cell, a plant cell, a lower eukaryote, and a prokaryote.
44. (Withdrawn) A host cell expressing the polypeptide of claim 39.
45. (Withdrawn) The host cell of claim 44, wherein the host cell is selected from the group consisting of a mammalian cell, a yeast cell, an insect cell, a plant cell, a lower eukaryote, and a prokaryote.